

VCD-40 Extruded Airfoil Blade Volume Control Damper

APPLICATION & DESIGN

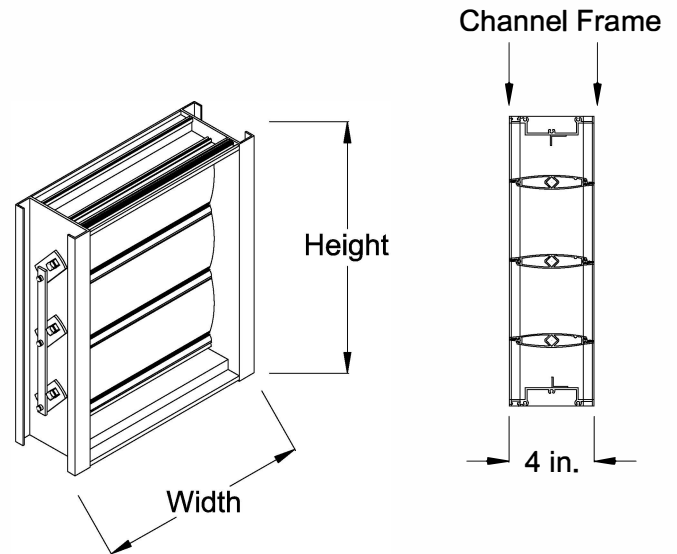
The VCD-40 is a low leakage high performance control damper with extruded aluminum airfoil blades. The blades are completely contained within the frame allowing the damper to be directly mounted to a louver, filter frame or similar application with no blade interference. Smooth profile extruded aluminum airfoil blades insure the lowest resistance to airflow in HVAC systems.

DAMPER RATINGS

Pressure:	Up to 6 in. wg - pressure differential
Velocity:	Up to 6,000 ft/min
Leakage:	4 CFM @ 4 in. wg or 2 CFM @ 1 in. wg
Temperature:	Up to 250 F

PRODUCT DETAILS

Frame Type:	Channel
Frame Thickness:	0.125 in.
Material:	Aluminum
Blade Type:	Airfoil
Blade Action:	Opposed
Blade Seal Material:	TPE
Axle/Linkage Material:	Steel
Axle Bearings:	Synthetic
Jamb Seal Material:	Stainless Steel
Damper Temp. Rating:	180 F
Jackshafting:	Required
Actuator Sizing:	Default SqFt
Sizing:	Nominal



- This drawing shows a general damper configuration and is not intended to depict the exact configuration of all dampers in this submittal.
- Width and height furnished approximately 0.250 in. undersize.
- Factory supplied actuators are sized for 1,500 fpm and a fully-closed differential pressure of 2 in. wc. Contact factory for actuator sizing on applications exceeding those levels.
- Customer supplied actuators configured with a jackshaft will be provided with a jackshaft that is one inch in diameter.
- Installation instructions available at www.greenheck.com.

ACTUATOR INFORMATION

Actuator Type:	None
Actuator Mounting:	External
Actuator Location:	Left Side

OPTIONS & ACCESSORIES

Union Label:	No Preference
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CODES APPROVED

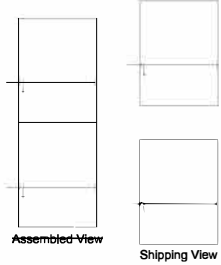
IECC (International Energy Conservation Code)
compliant
The AMCA Certified Ratings Seal applies to Air
Performance

SUMMARY

ID #	TAG	QTY	Width	Height	CONFIGURATION
2-1	AHU-5OA	1	54.000 in.	101.000 in.	Drive Arrangement: Drive-CC-12-2CEL-2

Damper Drive Arrangements Job Summary -Start-

Drive Arrangement: Drive-CC-12-2CEL-2



Damper Drive Arrangements Job Summary -End-

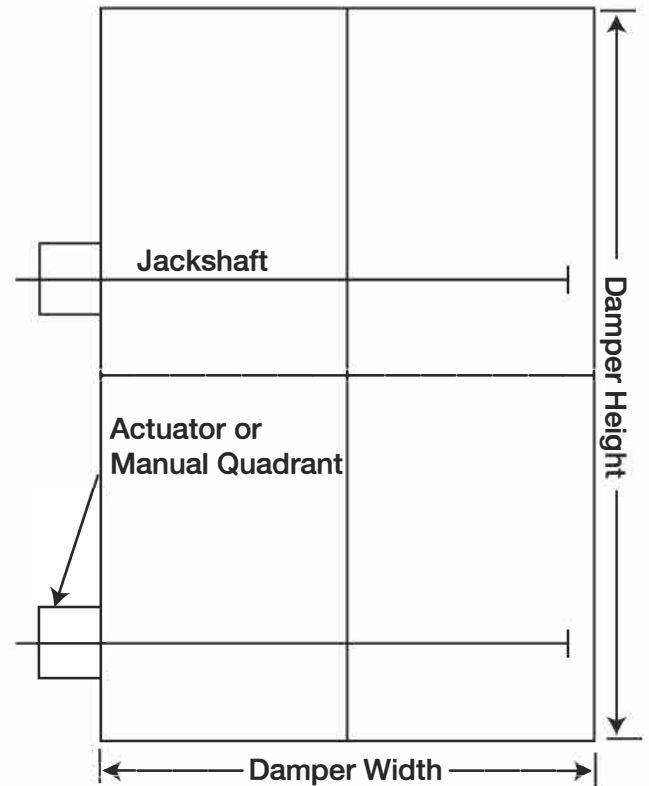
Drive Arrangement Definition

On multi-blade dampers (except vertical blade and Face & Bypass), they are given a drive arrangement code that helps describe the construction of the damper. The following breaks down what each number and letter represents.

22-2FEL-2

① ② ③ ④ ⑤ ⑥ ⑦

- ① Number of sections wide
- ② Number of sections high
- ③ Number of actuators or manual quadrants
- ④ Who supplies the actuators or manual quadrants
F - Factory
C - Customer Supplied (field mounted)
- ⑤ Actuator or manual quadrant mounting
E - External
I - Internal
B - Both internal and external
- ⑥ Actuator or manual quadrant location
L - Left hand drive
R - Right hand drive
B - Both right and left
- ⑦ Number of jackshafts



Vertical blade and face & bypass dampers are given a configuration ID number that helps describe the construction of the damper. See the following examples:

Model	Drive Arrangement Prefix
AMD-23, 33, 42	AMD
AMD-42V	VB
DFD-210, 230; DFDAF-310; DFDAF-330; SEDFD-210	MLS
FBH & FBV	FB
FSD, OFSD, CFSD, SMD, SEFSD, SSFSD, SESMD, SSSMD series (except vertical blade models)	MLS
FSD-311V, SMD-301V	VB
GFSD series	GFSD
ICD series	CC
IMO series	MLS
MBD-15 & VCD series (except vertical blade models)	CC
VCD-xxV (vertical blade models)	VB